

VELCRO FASTENER BELT

BACKGROUND OF THE INVENTION

The present invention is related to a Velcro fastener belt, including a fastener belt mainly made up of warp yarns, weft yarns, and sewing threads interwoven synchronically into a belt body wherein a patterned surface of consecutive arcs is figured at one side of the belt body for decorative effect and a tightly woven lint-like surface brushed with circular hairy pile is disposed at the other side of the belt body for fastening thereof. The fastener belt tightly woven by the sewing threads and the warp and the weft yarns thereof is greatly strengthened in structure, anti-friction, and pulling power, effectively preventing threads from coming or breaking off easily in the napping operation thereof.

Please refer to Figs. 1, 2. A conventional Velcro fastener belt is mainly made up of warp yarns 11 and weft yarns 12 directly interwoven into a belt body 13 with a plane woven surface 131 formed at one side thereof. The other side of the belt body 13 is brushed into a lint-like surface 101 as shown in Fig. 3 to form a female fastener piece as shown in Fig. 4 for a male fastener piece to be stuck thereto for fastening thereof.

There are some drawbacks to such conventional Velcro fastener belt structure. First, the belt body 10 with the plane woven surface 131 disposed at one side and the lint-like surface 101 at the other side thereof is rather plain in decorative effect, which may reduce its competitive power in the market. Second, the warp yarns 11 and the weft yarns 12 directly interwoven into the belt body 10 may easily fall or break in the napping operation and get destroyed in structure as shown in Fig. 3. Thus, the lint-like surface 101 of the belt body 10 can't be securely stuck to the male fastener piece for fastening, greatly reduced

in its fastening efficiency thereof.

SUMMARY OF THE PRESENT INVENTION

It is, therefore, the primary purpose of the present invention to provide a Velcro fastener belt, including a fastener belt mainly made up of warp yarns, weft yarns, and sewing threads interwoven synchronically into a belt body to form a tightly woven lint-like surface brushed with circular hairy pile disposed at one side of the belt body for fastening thereof wherein the fastener belt tightly woven by the sewing threads and the warp and the weft yarns thereof is greatly strengthened in structure, anti-friction, and pulling power, effectively preventing threads from coming or breaking off in the napping operation thereof.

It is, therefore, the secondary purpose of the present invention to provide a Velcro fastener belt wherein, depending on the quantity of weft yarns interwoven with the warp yarns and the sewing threads thereof respectively, consecutive arcs of different sizes are figured at a patterned surface disposed at the other side of the belt body for decorative effect, boosting the competitive power of the present invention in the market.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a sectional view of a conventional Velcro fastener belt in weaving.

Fig. 2 is a perspective view of the conventional Velcro fastener belt in completion.

Fig. 3 is a cross sectional view of the conventional Velcro fastener in napping status.

Fig. 4 is perspective view of the conventional Velcro fastener belt with a lint-like

surface disposed at one side thereof.

Fig. 5 is an enlarged cross sectional view of the present invention in weaving.

Fig. 6 is another enlarged cross sectional view of the present invention in weaving.

Fig. 7 is a third enlarged cross sectional view of the present invention in weaving.

Fig. 8 is a fourth enlarged cross sectional view of the present invention in weaving.

Fig. 9 is a fifth enlarged cross sectional view of the present invention in weaving.

Fig. 10 is a perspective view of the present invention in completion.

Fig. 11 is an enlarged cross sectional view of the present invention in napping status.

Fig. 12 is a perspective view of the present invention with a lint-like surface.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Please refer to Fig. 5. The present invention is related to a Velcro fastener belt, comprising a fastener belt 20 mainly made up of warp yarns 21, weft yarns 22 and sewing threads 23 interwoven synchronically into a belt body 24. The warp yarns 21 are equidistantly interwoven with every two or more than two weft yarns 22 as shown in Figs. 6, 7, 8, 9. And the sewing threads 23 are synchronically interwoven with the warp yarns 21 and every one or more than one weft yarns 22 as shown in Figs. 6, 7, 8, 9. Tying holes 231 and interlaced tying sections 232 are equidistantly disposed at the sewing threads 23 for the warp yarns 21 to be tightly led there-through and interwoven therewith. With the sewing threads 23 and the warp yarns 21 tightly woven with more than one weft yarns 22 thereof, consecutive arcs of different sizes are figured at a patterned

surface 241 disposed at one side of the belt body 24 as shown in Fig. 10. And the other side of the belt body 24 is brushed into circular hairy pile as shown in Fig. 11 to form a tightly woven lint-like surface 242 as shown in Fig. 12.

Thus, the fastener belt 20 is formed by the sewing threads 23 synchronically interwoven with the warp and the weft yarns 21, 22 thereof wherein the belt body 24 with the tightly woven lint-like surface 242 disposed at one side for fastening thereof is strengthened in structure, anti-friction, and pulling power, effectively preventing threads from coming or breaking off easily in the napping operation. Besides, depending on the quantity of the weft yarns 22 interwoven with the sewing threads 23 and the warp yarns 21 thereof respectively, consecutive arcs of different sizes are figured at one side of the fastener belt 20 to form the patterned surface 241 with decorative effect so as to boost the competitive power of the present invention in the market.